

a request for taking an action related to the cell of the first network element or the cell of the second network element; and

transmit a command for taking the action related to the cell of the first network element or the cell of the second network element based on the received impact information and/or request.

17. The centralized network element of claim **16**, wherein the impact information comprises at least one of benefit information, penalty information, or net benefit information.

18. The centralized network element of claim **16**, wherein the impact information comprises a priority factor.

19. The centralized network element of claim **18**, wherein the priority factor is based on at least one of:

- a congestion of a physical-downlink-control-channel/enhanced-physical-downlink-control-channel,
- a use of range extension,
- a channel type, and
- Quality-of-Service characteristics of a data channel transmission.

20. A method, comprising:

- transmitting, by a network element, at least one of:
 - calculated impact information for a cell of the network element when taking an action related to a cell of the network element and/or taking an action related to a cell of a second network element; and
 - a request for taking the action related to the cell of the second network element.

21. The method according to claim **20**, wherein the action comprises at least one of:

- muting the transmission
- changing the on-duration,
- reducing the transmit power, or
- beamforming the transmission.

22. The method according to claim **20**, wherein the impact information comprises benefit/penalty information.

23. The method according claim **22**, wherein the benefit/penalty information further comprises at least one of:

- an amount of resources for the action;
- an indication of specific frequency resources for the action;
- an indication of specific frequency sub-band resource for the action;
- an indication of beamforming coefficients;
- an indication of specific time for the action; or
- an indication of the duration for the action.

24. The method according to claim **20**, further comprising:

- calculating a net benefit based on the calculated impact information; and
- transmitting the net benefit to the second network element.

25. The method according to claim **20**, wherein the impact information comprises a priority factor.

26. The method according to claim **25**, wherein the priority factor is based on at least one of:

- a congestion of a physical-downlink-control-channel/enhanced-physical-downlink-control-channel,
- a use of range extension,
- a channel type, and
- Quality-of-Service characteristics of a data channel transmission.

27. A method, comprising:

- receiving, by a network element, at least one of:
 - impact information for a cell of a second network element when taking an action related to the cell of the second

- network element, and/or when taking an action related to a cell of the network element;
- a request from the second network element for taking an action related to a cell of the network element; and
- a command from a central network element for taking an action related to a cell of the network element; and
- taking the action related to the cell of the network element based on at least one of the received impact information, the command, or the request.

28. The method according to claim **27**, further comprising:

- calculating a penalty/benefit for taking the action;
- calculating a net benefit based on the received impact information and the calculated penalty/benefit information; and
- determining whether to undertake the action based on the calculated net benefit.

29. The method according to claim **28**, wherein the determining whether to undertake the action further comprises:

- receiving net benefit information from at least one other network element; and
- determining to undertake the action based a comparison of the calculated net benefit and the net benefit information received from the at least one other network element.

30. The method of claim **27**, wherein the received impact information comprises benefit/penalty information.

31. The method according to claim **27**, wherein the received impact information comprises a priority factor.

32. The method according to claim **31**, wherein the priority factor is based on at least one of:

- a congestion of a physical-downlink-control-channel/enhanced-physical-downlink-control-channel,
- a use of range extension,
- a channel type, and
- Quality-of-Service characteristics of a data channel transmission.

33. A method, comprising:

- receiving, by a centralized network element, from a first network element at least one of:
 - impact information for a cell of the first network element when taking an action related to a cell of the first network element, or when taking an action related to a cell of a second network element;
 - a request for taking an action related to the cell of the first network element or the cell of the second network element; and
 - transmitting a command for taking the action related to the cell of the first network element or the cell of the second network element based on the received impact information and/or request.

34. The method according to claim **33**, wherein the impact information comprises at least one of benefit information, penalty information, or net benefit information.

35. The method according to claim **33**, wherein the impact information comprises a priority factor.

36. The method according to claim **35**, wherein the priority factor is based on at least one of:

- a congestion of a physical-downlink-control-channel/enhanced-physical-downlink-control-channel,
- a use of range extension,
- a channel type, and
- Quality-of-Service characteristics of a data channel transmission.